



PCT09

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/763,848

DATE: 06/06/2002

TIME: 14:30:19

Input Set : A:\00200140.app

Output Set: N:\CRF3\06062002\I763848.raw

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3 <110> APPLICANT: Cohen, Patricia T.W.  
 4 Armstrong, Christopher G.  
 5 Doherty, Martin J.  
 7 <120> TITLE OF INVENTION: Protein Domains in the Hepatic Glycogen-Targetting  
 8 Subunit of Protein Phosphatase 1 and Methods of Making  
 9 and Using The Same  
 11 <130> FILE REFERENCE: 002.00140  
 13 <140> CURRENT APPLICATION NUMBER: US 09/763,848  
 C--> 14 <141> CURRENT FILING DATE: 2001-02-27  
 16 <150> PRIOR APPLICATION NUMBER: PCT/GB99/02761  
 17 <151> PRIOR FILING DATE: 1999-08-19  
 19 <150> PRIOR APPLICATION NUMBER: GB 9818650.5  
 20 <151> PRIOR FILING DATE: 1998-08-27  
 22 <160> NUMBER OF SEQ ID NOS: 12  
 24 <170> SOFTWARE: PatentIn Ver. 2.1  
 26 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 16  
 28 <212> TYPE: PRT  
 29 <213> ORGANISM: Rattus sp.  
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 37 <211> LENGTH: 4  
 38 <212> TYPE: PRT  
 39 <213> ORGANISM: Rattus sp.  
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 43 1  
 46 <210> SEQ ID NO: 3  
 47 <211> LENGTH: 13  
 48 <212> TYPE: PRT  
 49 <213> ORGANISM: Rattus sp.  
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 57 <211> LENGTH: 18  
 58 <212> TYPE: PRT  
 59 <213> ORGANISM: Rattus sp.  
 61 <400> SEQUENCE: 4  
 62 Thr Val Gln Glu Lys Lys Val Lys Lys Arg Val Ser Phe Ala Asp Gln  
 63 1 5 10 15

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65 Gly Leu
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70 <211> LENGTH: 11
71 <212> TYPE: PRT
72 <213> ORGANISM: Rabbit
74 <400> SEQUENCE: 5
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80 <211> LENGTH: 100
81 <212> TYPE: PRT
82 <213> ORGANISM: Rattus sp.
84 <400> SEQUENCE: 6
85 Val Cys Leu Glu Asn Cys Val Leu Lys Glu Lys Ala Ile Ala Gly Thr
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88 Val Lys Val Gln Asn Leu Ala Phe Glu Lys Val Val Lys Ile Arg Met
89           20           25           30
91 Thr Phe Asp Thr Trp Lys Ser Phe Thr Asp Phe Pro Cys Gln Tyr Val
92           35           40           45
94 Lys Asp Thr Tyr Ala Gly Ser Asp Arg Asp Thr Phe Ser Phe Asp Ile
95           50           55           60
97 Ser Leu Pro Glu Lys Ile Gln Ser Tyr Glu Arg Met Glu Phe Ala Val
98   65           70           75           80
100 Cys Tyr Glu Cys Asn Gly Gln Ser Tyr Trp Asp Ser Asn Lys Gly Lys
101           85           90           95
103 Asn Tyr Arg Ile
104           100
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108 <211> LENGTH: 100
109 <212> TYPE: PRT
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113 Val Cys Leu Glu Asn Cys Ser Leu Gln Glu Arg Thr Val Thr Gly Thr
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116 Val Lys Val Lys Asn Val Ser Phe Glu Lys Lys Val Gln Ile Arg Ile
117           20           25           30
119 Thr Phe Asp Ser Trp Lys Asn Tyr Thr Asp Val Asp Cys Val Tyr Met
120           35           40           45
122 Lys Asn Val Tyr Gly Gly Thr Asp Ser Asp Thr Phe Ser Phe Ala Ile
123           50           55           60
125 Asp Leu Pro Pro Val Ile Pro Thr Glu Gln Lys Ile Glu Phe Cys Ile
126   65           70           75           80
128 Ser Tyr His Ala Asn Gly Gln Val Phe Trp Asp Asn Asn Asp Gly Gln
129           85           90           95
131 Asn Tyr Arg Ile
132           100
135 <210> SEQ ID NO: 8
136 <211> LENGTH: 101
137 <212> TYPE: PRT

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138 <213> ORGANISM: Homo sapiens
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147 Thr Phe Ser Gly Trp Arg Ser Thr His Glu Ala Val Ala Arg Trp Arg
148           35           40           45
150 Gly Pro Ala Gly Pro Glu Gly Thr Glu Asp Val Phe Thr Phe Gly Phe
151           50           55           60
153 Pro Val Pro Pro Phe Leu Leu Glu Leu Gly Ser Arg Val His Phe Ala
154   65           70           75           80
156 Val Arg Tyr Gln Val Ala Gly Ala Glu Tyr Trp Asp Asn Asn Asp His
157           85           90           95
159 Arg Asp Tyr Ser Leu
160           100
163 <210> SEQ ID NO: 9
164 <211> LENGTH: 102
165 <212> TYPE: PRT
166 <213> ORGANISM: Homo sapiens
168 <400> SEQUENCE: 9
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170   1           5           10           15
172 Gly Ile Ile Arg Val Leu Asn Val Ser Phe Glu Lys Leu Val Tyr Val
173           20           25           30
175 Arg Met Ser Leu Asp Asp Trp Gln Thr His Tyr Asp Ile Leu Ala Glu
176           35           40           45
178 Tyr Val Pro Asn Ser Cys Asp Gly Glu Thr Asp Gln Phe Ser Phe Lys
179           50           55           60
181 Ile Val Leu Val Pro Pro Tyr Gln Lys Asp Gly Ser Lys Val Glu Phe
182   65           70           75           80
184 Cys Ile Arg Tyr Glu Thr Ser Val Gly Thr Phe Trp Ser Asn Asn Asn
185           85           90           95
187 Gly Thr Asn Tyr Thr Phe
188           100
191 <210> SEQ ID NO: 10
192 <211> LENGTH: 117
193 <212> TYPE: PRT
194 <213> ORGANISM: Saccharomyces cerevisiae
196 <400> SEQUENCE: 10
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200 Thr Gly Leu Val Tyr Val Lys Asn Leu Ser Phe Glu Lys Tyr Leu Glu
201           20           25           30
203 Ile Lys Phe Thr Phe Asn Ser Trp Arg Asp Ile His Tyr Val Thr Ala
204           35           40           45
206 Asn Phe Asn Arg Thr Ile Asn Ser Asn Val Asp Glu Phe Lys Phe Thr
207           50           55           60
209 Ile Asp Leu Asn Ser Leu Lys Tyr Ile Leu Leu Ile Lys Arg Ile Ile

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210 65                      70                      75                      80
212 Thr Met Glu Lys Asn Thr Ser Ser Cys Pro Leu Asn Ile Glu Leu Cys
213                      85                      90                      95
215 Cys Arg Tyr Asp Val Asn Asn Glu Thr Tyr Tyr Asp Asn Asn Asn Gly
216                      100                      105                      110
218 Lys Asn Tyr His Leu
219                      115
222 <210> SEQ ID NO: 11
223 <211> LENGTH: 96
224 <212> TYPE: PRT
225 <213> ORGANISM: Rhizopus oryzae
227 <400> SEQUENCE: 11
228 Val Gln Leu Asp Ser Tyr Asn Tyr Asp Gly Ser Thr Phe Ser Gly Lys
229 1                      5                      10                      15
231 Ile Tyr Val Lys Asn Ile Ala Tyr Ser Lys Lys Val Thr Val Ile Tyr
232                      20                      25                      30
234 Ala Asp Gly Ser Asp Asn Trp Asn Asn Asn Gly Asn Thr Ile Ala Ala
235                      35                      40                      45
237 Ser Tyr Ser Ala Pro Ile Ser Gly Ser Asn Tyr Glu Tyr Trp Thr Phe
238                      50                      55                      60
240 Ser Ala Ser Ile Asn Gly Ile Lys Glu Phe Tyr Ile Lys Tyr Glu Val
241 65                      70                      75                      80
243 Ser Gly Lys Thr Tyr Tyr Asp Asn Asn Asn Ser Ala Asn Tyr Gln Val
244                      85                      90                      95
250 <210> SEQ ID NO: 12
251 <211> LENGTH: 40
252 <212> TYPE: PRT
253 <213> ORGANISM: Rabbit
255 <400> SEQUENCE: 12
256 Arg His Leu Gln Ile Ile Tyr Glu Ile Asn Gln Arg Phe Leu Asn Arg
257 1                      5                      10                      15
259 Val Ala Ala Ala Phe Pro Gly Asp Val Asp Arg Leu Arg Arg Met Ser
260                      20                      25                      30
262 Leu Val Glu Glu Gly Ala Cys Lys
263                      35                      40

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## VERIFICATION SUMMARY

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L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date